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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|-----------------------|------------------|
| 10/556,604 | 11/14/2005 | Paul Demilie | 280987US0PCT | 8435 |
| OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET | | | EXAMINER | |
| | | | HENDRICKSON, STUART L | |
| ALEXANDRIA, VA 22314 | | | ART UNIT | PAPER NUMBER |
| | | | 1793 | |
| | | | | |
| | | | NOTIFICATION DATE | DELIVERY MODE |
| | | | 06/10/2009 | ELECTRONIC |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

| | Application No. | Applicant(s) | | | |
|--|---|---------------|--|--|--|
| Office Action Comments | 10/556,604 | DEMILIE, PAUL | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Stuart Hendrickson | 1793 | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | |
| Status | | | | | |
| 1) Responsive to communication(s) filed on <u>04 M</u> | arch 2009 | | | | |
| ·= · · · · · · · · · · · · · · · · · · | action is non-final. | | | | |
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| | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | |
| · | .x parte quayre, 1000 0.2. 11, 10 | 0.0.210. | | | |
| Disposition of Claims | | | | | |
| 4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 and 19 is/are rejected. 7) ☐ Claim(s) 10-18, 20 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. | | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other: | te | | | |

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-9, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka 6207123 taken with Ninane et al. 6478828.

The discussion in the specification of Tanaka reference is noted, as is the attempt to exclude the evaporation step thereof. Therefore, a detailed explanation of the reference is not believed to be necessary. However, the 'can be ... without' limitation does not actually exclude any step. See the abstract, which teaches trona. See col. 2 bottom for claim 3. Col. 3 lines 30-35 teach claim 6. Col. 7 line 30 teaches claim 9- and when the recycling is performed, then claim 7 is performed too.

Tanaka does not teach the step of supersaturating, however Ninane teaches in col. 2-3 that sodium carbonate has low solubility at high temperature, and that Tanaka is a relatively high temperature process. Thus, it is an obvious expedient to crystallize by supersaturation since the solution is already near its solubility limit by virtue of its high temperature.

Tanaka also does not teach the concentration of claims 4 and 5, however col. 4 bottom teaches 30% Na carbonate, rendering claims 4 and 5 obvious as routine variation- see In re Boesch 205 USPQ 215. In so far as claims 7 and 9 are not explicitly demonstrated (are optional) then performing them is an obvious expedient to obtain the desired carbonate product. Also, Ninane teaches that the liquor so obtained may be recycled for optimium yield, hence tendering this step obvious.

Applicant's arguments with respect to claims 1-9, 19 have been considered but are moot in view of the new ground(s) of rejection.

A new reference is introduced to teach the new step recited.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (571) 272-1351.

/Stuart Hendrickson/ examiner Art Unit 1793